

PO No	Supplier	Line Item No	Rei No	Term	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days		Total	Supplie
	MEC002- VU	1	1	Net 80	M7075T6S1.25g8/2.000	7075-T6 Sheet 1,250" X 2,000": MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft				48	1/8/2018	48	1	\$030137	Stock	1/2/2018	\$ 20.12 / ft	6		\$965.76	Metaux Castle
		2		•	M70Y6Teac.oug/to.200	7075-T6S Sheet 6" Thick Plate X 0.25" Wide: MATERIAL: 7075-T67/62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft				12	7	12	7	S030134	Stock	1/2/2018	\$ 20.75 / ft	6		\$249.00	Metaux Castle
		3				M 1075T6S0.750X1.250 : MATERIAL: 7075- T67f62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft						12		030139	Stock	1/2/2018	\$ 16.45 / ft	6		\$197,40	Metaux Castle
		4				7075-T6S Sheet .375" Thick Plate X 6" Wide: MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ff				24		24		9030140	Stock	1/2/2018	\$ 25.68 / ft	6		\$616.32	Metaux Castle
		5		- 01		7075-T6 Sheet 1.750 ^m X 2.250 ^m : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft				48		48		5030141		1/2/2018	\$ 28.62 / ft	6			Castle
					1	7075-T6S Sheet 4.000" Thick X 3.000" Wide: MATERIAL: 7075- 16/T62 ALUMINUM BHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 DR ASTM B209 receive				24		24	s	029679 S	Stock 1	/5/2018	\$ 82.35 / ft	3		\$1,976.40	Metaux Castle
		1		10	L 7 A P A	1075-T6 Sheet 4,000' X 1,000" cut to size: 32" 1,000" cut to size: 32" 1075-T6/T62 1,UMINUM SHEET AS 12ER QQ-A-250/12 OR 1,000 AS TM 1,000 FOR				27		27	s	029880 S	tock 1	\$5/2018	94.50 / ft	3		\$2,520.32	Metaux Castle
									Total:	195		195		_	_				IA-	,898.96	



A. M. Castle & Co.

Ship From:		Sold To:		Ship To:	Deliver To:
A. M. Castle & Co. (Canada) Inc. Toronto 2150 Argentia Road MISSISSAUGA, ON L5N 2K7	nada) Inc. N 2K7	DART AEROSP/ 1270 ABERDEEI ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	+
Date Shipped	F.O.B.		Freight Terms	Carrier	BO No
02~JAN-2018	ORIGIN		Prepaid	LOCAL_FLEET	2814999 121506248
Shipment Details				Final Destination Branch -	
Order No	I the Ma	100			
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4986350	-	752	752114.MO	1.2500.PL.7075.T651.ALUMINUM.USI.2.000.144.5000 CUT RECTANGLE TO 2 IN () X 144.5 IN () SPECIFIC ALL PAPERWORK MUST FOLLOW ORDER / CUSTO TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKING Fmail Pic and Garls to Allocations	1.2500.PL.7075.T651.ALUMINUM.USI.2.000.144.5000 CUT RECTANGLE TO 2 IN () X 144.5 IN () SPECIFICATIONS. AMS-QQ-A-2504 ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S FINAL PAPER ALL PAPE IDENTIFYING MARKINGS EX:HEAT #'S
Purchase Order No		Part Number		Ordered Off	@uarraero.com
38631				4.00 PCS	4.00 PCS
Details	ALL ALL END END	ALL PAPERWORK ALL MATERIAL MU Email P/s and certs END USER: DART END USE: COMME		MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY IST HAVE IDENTIFYING MARKINGS EX:HEAT #'S to: davoie@dartaero.com AEROSPACE RCIAI AIRCRAFT PAPTS	TIME OF DELIVERY
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M	24860784	0784		Width (IN)	Length (IN) Shipped Qty (LBS)
Vo horoby carlify the material cover est reports are on file subject to oxe or credit.	od by this certification amination. All claim	on conforms in acco	rdence with the above specifications and hatla are waived unless made in writing to by	as boon found to meet the applicable requirements M. Castle & Co. within 60 days of the shipment. M.	We hotely carlify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any proclications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to AM_Carlie & Co. within 60 days of the shipment. Maleign by the correct size of maleint cut by the customer reason has entered.
Reviewed by Authorized Castle Molais Reprosentative:	als Reprosentative:		3	The DVSK/4 Name:	the Mary
			D 2002 TO	12708	



A. M. Castle & Co. (Canada) Inc. DART AEROSPACE LTD DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, 1270 ABERDEEN HAWKESBURY, 2150 Agentia Road 1270 ABERDEEN HAWKESBURY, 2150 Agentia Road 1270 ABERDEEN HAWKESBURY, 2150 ABERDEEN HARST RUNGE ALL MATERIAL MUST FOLLOW ORDER / CUSTOMER / CUSTOM	Canada L5N 2		000	Ship To:	Dolling To.	
Shipped F.O.B. Freight Terms N-2018 ORIGIN Prepaid nent Details No Line No Item No 50 2 750488.MO ALL PAPERWORK MUST FOLLOW ORDER / CL ALL MATERIAL MUST HAVE IDENTIFYING MAFER Final P/s and certs to: clavoie@dataero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS Ource Heaf Number ALL MATERIAL MUST FOLLOW ORDER / CL ALL MATERIAL M	-	a) Inc. X7	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		ZY, ON K6A
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se Order No ALL PAPERWORK MUST FOLLOW ORDER / CL ALL MATERIAL MUST HAVE IDENTIFYING MAF Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS Ource Heat Number Mech ID Part Number ALL PAPERWORK MUST FOLLOW ORDER / CL ALL MATERIAL MUST HAVE IDENTIFYING MAF END USE: COMMERCIAL AIRCRAFT PARTS ACCOMMERCIAL AI		Line No	Item No	Description		
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urce	18631			4.00 PCS	4.00 PCS	
Heat Number Mech ID PCS Width (IN)	Details	ALL PA ALL M/ Email F END U:	APERWORK MUST FOLLOW ORDER ATERIAL MUST HAVE IDENTIFYING I Ns and certs to: clavoie@dartaero.com SER: DART AEROSPACE SER: COMMERCIAL AIDCDAET DADES	CUSTOMER MUST RECEIVE AT TARKINGS EX:HEAT #'S	IME OF DELIVERY	3
4	Mill/Source	HeatN	Mech ID	cs	Length (IN) Shipped Of / I RS	J RSI
() but		704550	B3 prof	4		
We hereby cartify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the materials are waived unless made in writing loge. Co. within 80 days of the shipment. Materials or periodic to examination. All claims for defactive material are waived unless made in writing loge. Co. within 80 days of the shipment. Materials or periodic to present the the customer cannot be returned.	fe horeby cartify the material covered by (est reports are on file subject to examinati if credit.	lhis certification lilon. All claims fi	conforms in accordance with the above specifications and or defective material are waived unless mads in writing log	has boon found to moot the applicable requirements for	the material, including any specifications forming a par ign cut by the correct atte, or general cut by the custom	of the description. If central be returne
Gridewood by Authorized Castle Melate Representative:	oviowed by Authorized Casile Melale Rep	prosentativo:	5	Co Date I A Marrie:	1111	



A M Contion of A		Sold To:		Ship To:	Dali	Deliver To:	
Los Angeles 14001 Orange Avenue Paramount, CA 90723		DART AEROSPACE LTD 1270 ABERDEEN HAWF ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWK 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped	F.O.B.	F	Freight Terms	Carrier	BOL No		Delivery No.
02-JAN-2018	ORIGIN	Ā	Prepaid	BO-SHIP DIRECT	2814998		121500852
Shipment Details				Final Destination Branch	9		
Order No	Line No	Item No	0	Description			
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38631				1.00 PCS		1.00 PCS	1
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Mill/Source	Heat	Heat Nimsber	Mach In	976		5	
KAISER ALUMINUM	(682592A1	2A1		1 width (IN)	Length (IN		Shipped Qty (LBS) 22.8550
These items are controlled by the any other country or to any person by U.S. law and regulations.	U.S. Government and other than the authori	authorizad for export or zod ullimato consignoo	nly to the country of utimate destinate or end-user(s), either in their origins	These items are controlled by the U.S. Government and authorized for expect only to the country of utlimate destination for use by the utlimate consignee or and-use/(s) herein identified. They may not be resord, transferred, or otherwise disposed of, to any other or outly or to any person other than the authorized utlimate consignee or end-user(s), either in their original form or after being incorporated than then the utlimate approval from the U.S. Government or as otherwise authorized by U.S. two and regulations.	Fuser(s) harein idenlified. Iloms, without first ablaini	They may not be resold, Ing approval from the U.S.	transferred, or otherwise disposed o
We hereby cortify the material coverant Test reports are on file subject to e for crodil.	ored by this cartificatio examination. All claims	n conforms in accordan for defective material	co with the above specifications and are waived unless made in writing to,	We hereby cartily the material covered by this cartification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material any specification sorted a part of the description. The subject to examination. All chims for defective material are waived unless made in writing to the control of days of the shipmont. Material cut to transfer at the the customer cannot be coturned for conditions.	irements for the material, mont. Material cut to the	including any specification correct size, or mulcital cu	is forming a part of the description. If by the customer cannot be returne
Roviowed by Authorized Casile Metals Representative:	otats Representative;		0	Date: Name:	0: 11/1/1	White the same of	
				21/00/12	1 MM	1	



CERTIFICATE OF CONFORMANCE PACKING SLIP/

Page 1 of 1

OLD Promise		1					Fack Slip No:2802178	
Snip From:		Sold To:		Ship To:		Deliver To:		-
A. M. Castle & Co.		DARTAE	DART AFROSPACE LTD	DADT AED	DADT AEDOCOACE LTD	S L S L S C S C S C S C S C S C S C S C		-
Los Angeles		1270 AB	1270 ABERDEEN HAWKESBURY	1270 ARFROFEN	JEEN SELID	1970 ABEBREEN COMME	ICE LID	_
14001 Orange Avenue		ON K6A	1K7 CA	HAWKESRI	HAWKESBIRY ON KEA 1K7 CA		1270 ABERDEEN HAWKESBURY, ON K6A	_
Paramount, CA 90723					S AL PON NO. 1 AL	2		_
Date Shipped	F.O.B.		Freight Terms	Carrier		BOI No	Delivered	_
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Shipment Details				Final Destin	Final Destination Branch -			
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	END	P/s and ce USER: DAF	Email P/s and certs to: clavole@dartaero.com END USER: DART AFROSPACE	_			ROGE	
	END	END USE: COM	MERCIAL AIRCRAFT PARTS	6			·	_
Mill/Source	Heat	Heat Number	/ Mech ID	bcs	Width (IN)	I ongth /IMI		-
KAISER ALUMINUM	(234628B6		med	1	fairl find	rengin (m)	3mpped Qty (LBS)	
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These items ere controlled by the U.	S. Government and ther then the author	d authorized for a rized utilimate cor	(export only to the country of utitmate destinated species of smd-user(s), either in their original	tion for use by the uftime! I form or after boing inco	o consignee or and-user(s) he porated into other items. with	roin identified. They may not be in	These liams are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or and-user(s) herein identitied. They may not be resold, transferred, or otherwise disposed of, to may only or to make a suffer being intercept in their original form or after being throughout intercept in the original form to the country or the country or to the country or the country or to the country or to the country or the country	
by O.S. taw and regulatorie.						and the second s	C.S. SCYCHIMMIN OF BS GENERALS BUILDINGE	-

We hareby cordity the material covered by this certification conforms in accordance with the above specifications and has been lound to meet the applicable requirements for the material including any specification conforms are warved unless made in writing to A.M. Creatle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned Reviewed by Authorized Castle Molais Representative:

Requested by Delaney, Eric (Eric)



A. M. Castle & Co.

	00	Sold 10:	Ship To:	Deliver To:	
A. M. Castle & Co. Los Angeles 14001 Orange Avenue Paramount, CA 90723		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA
Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No	Delivery No
02-JAN-2018	ORIGIN	Prepaid	BO-SHIP DIRECT	2814998	121500852
Shipment Details			Final Destination Branch -		
- N-1-10		24 25			
Order No	Line No	Item No	Description		
4984539	വ	750067.MO	0.3750.PL.7075.T651.ALUMINUM.48.5000.144.5000 CUT 2SIDED TO 6 IN (+ .1250/0000 IN) X 144.5-IN (+ .1250/- ALUMINUM PLATE SAW SPECIFICATIONS AMSO.A.256/12	UM.48.5000.144.5000 I/0000 IN) X 144.5-IN (+ CIFICATIONS AMS-DO-4	- (VI 0000 - 1050) -
Purchase Order No	Part	Part Number	Ordered Otv	Thorica	All a Comment
38631			2.00 PCS	2.00 PCS	
Details	ALL PAPE ALL MATE	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS FX:HFAT #:S	/ CUSTOMER MUST RECEIVE AT MARKINGS EX:HEAT #'S	TIME OF DELIVERY	
	Email P/s END USE	Email P/s and certs to: clavole@dartaero.com END USER: DART AEROSPACE		R	XPX
Mill/Source	LAST NUMBER	LAS NIEMENCIAL AIRCRAFT PAKTO	900	-)
KAISER ALUMINUM	245158B1	Just	2 Width (IN)	Length (IN)	Shipped Qty (LBS) 68.1271
These tlems are controlled by the any other country or to any person by U.S. law and regulations.	U.S. Government and authors of the control of the c	These items are controlled by the U.S. Government and authorized for expert only to the country of ultimate destination for use by the ultimate consigned or in their original form or after being incorporated into other items, without first but into U.S. Government or as otherwise authorized by U.S. Isw and regulations.	lifon for uso by the utilmate consignee or end-user(s) is form or after being incorporated into other items, will	hersin Identified. Thay may not be road Ihauf first obtaining approval from tho L	old, transferred, or otherwise disposed of J.S. Government or as otherwise author
We hereby cortify the meterial cov Test reports are on file subject to r for credit.	ered by this certification confoxements for de	We hareby cortify the material covered by this cardification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unloss made in writing to AMC and the applicable requirement. Material cut by the customer cannot be returned for ceeds.	A McCasilg & Co. within 60 days of the shipment. M	for the material, including any specific slorial cul to the conect size, or pateri	blions forming a part of the description.
Reviewed by Authorized Castlo Motals Ropresentative:	otals Ropresonlative:		STEE Dates A Nemo:		
			1000	1011	



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO038631

Tel (613) 632-5200

Supplier: MEC002-VU

Metaux Castle

P.O. Box 4090 Stn A

Toronto ON

M5W OE9 Canada

PO No:

PO038631

PO Date:

12/12/17

Due Date:

1/8/18

Purchase Order

Revision:

Revision Date: Ship-To Contact:

Lavoie, ChantalPhone: clavoie@dartaero.com

Ship To:

1270 Aberdeen Street

Hawkesbury ON

K6A 1K7 Canada Phone: 613-632-5200 Via:

Ground

Pymt Terms: Freight Terms: Net 30

Special Comments:

Items

Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	У _{М7075T6S1.250X2.000}	7075-T6 Sheet 1.250" X 2.000" : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	/48 ft	481	48 ft	\$20.12/ft	
2		7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 regeive ft	Firmed	1/8/18	/ 12 ft	126	12 ft	\$20.75/ft	\$249.00
3		M7075T6S0.750X1.250 : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OB ASTM B209	Firmed	1/8/18	12 ft	12F	12 ft	\$16.45/ft	\$197.40
4		7075-T6S Sheet .375" Thick Plate X 6" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	<i>J</i> 24 ft	Of.	£4 ft	\$25,68/ft	\$616.32

2			Items						
Line Item	Part	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extender Price
5	M7075T6S1.750X2.250	7075-T6 Sheet 1.750" X 2.250" : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	48 ft	(8)	48 ft -	\$28.62/ft	\$1,373.76
6	M7075T6\$4.000X3.000	7075-T6S Sheet 4.000" Thick X 3.000" Wide : MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	1/8/18	24 ft	0H 24F		\$82.35/A	\$1,976.40
		7075-T6 Sheet 4.000' X 4.000" cut to size: 32"	Firmed	1/8/18	26.667 ft	0 ft	27 ft S	\$94.500236/ft	\$2,520.04
		LONG: MATERIAL: 7075- T6/T62 ALUMINUM SHEET AS PER QQ-A- 250/12 OR AMS-QQ-A- 250/12 OR AMS 4045 OR ASTM B209 receive ft		9		26.6	6071	394,500236/ft = C+	۲.
ne Item Note	10 pcs cut at 32" lenght	receive ft							

Grand Total: \$7,898.68

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 12/13/17 11:11 AM dart.lavoie.chantal

Chantal Lavoie

From:

Desbiens, Marc < mdesbien@amcastle.com>

Sent:

Wednesday, December 13, 2017 11:03 AM

To:

Chantal Lavoie

Subject:

RE: quote

Hi Chantal,

Sorry

7075-t6 bar 4" x 3" x 24 ft cut in section 4 ft \$82.35 Ft

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370

Customized Supply Chain Solutions for Your Metal Needs

From: Chantal Lavoie [mailto:clavoie@dartaero.com]

Sent: Tuesday, December 12, 2017 2:06 PM

To: Desbiens, Marc Subject: RE: quote

Hi Marc,

For mat'l 7075-t6 plate 4 x 3 wow is it really 215.52 a ft.

Thanks Chantal

From: Desbiens, Marc [mailto:mdesbien@amcastle.com]

Sent: Monday, December 11, 2017 1:59 PM
To: Chantal Lavoie < clavoie@dartaero.com>

Subject: RE: quote

Hi Chantal,

price an delivery on mat'l.

7075-t6 bar 1.250" x 2" x 12 ft \$ 20.12 Ft 70175-t6 bar 6" x 0.250" x 12 ft \$ 20.75 Ft 7075-t6 bar 1.250" x 2" x 36 ft \$ 20.12 Ft 7075-t6 bar 0.750" x 1.250" x 12 ft \$ 16.45 Ft 7075t6 bar 0.375" x 6" x 24 ft \$ 25.68 Ft
7075-t6 bar 4.5" x 5" x 12 ft cut in section 4 ft Regret, 4" max
7075-t6 bar 1.750" x 2.250" x 24 ft \$ 28.62 Ft
7075-t6 bar 4" x 3" x 24 ft cut in section 4 ft \$ 215.25 Ft
7075-t6 bar 4" x 4" x 10 pcs cut At 32" \$ 252.00 piece

These would all be cut from plate

All 3 weeks

Thanks

Marc Desbiens
Inside sales representative
Castle Metals, Montreal, QC
Direct line 514-795-8176
1-800-806-6660 ext 52226
Fax # 1-855-892-6370
Customized Supply Chain Solutions for Your Metal Needs

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If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.

Chantal Lavoie

From:

Desbiens, Marc <mdesbien@amcastle.com>

Sent:

Monday, December 11, 2017 1:59 PM

To:

Chantal Lavoie

Subject:

RE: quote

Hi Chantal,

price an delivery on mat'l

7075-t6 bar 1.250" x 2" x 12 ft \$ 20.12 Ft 70175-t6 bar 6" x 0.250" x 12 ft \$ 20.75 Ft

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7075t6 bar 0.375" x 6" x 24 ft \$ 25.68 Ft

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7075-t6 bar 1.750" x 2.250" x 4 ft \$ 28.62 Ft

7075-t6 bar 4" x 3" x 24 ft cut in section 4 ft \$ 215.25 Ft

7075-t6 bar 4" x 4" x 10 pcs cut At 32" \$ 252.00 piece - 26.0664.

These would all be cut from plate

All 3 weeks

Thanks

Marc Desbiens
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Customized Supply Chain Solutions for Your Metal Needs

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SHIP TO:

HADCO METAL TRADING CO. LLC SHIP TO STOCK 555 STATE ROAD BENSALEM, PA 19020

SOLD TO:

HADCO METAL TRADING CO. LLC 555 STATE ROAD BENSALEM, PA 19020



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4478709



098007-3	BER:	WORK P	ACKAGE.	CUSTON	IER PART NUM	BER:		RUNILOAD: 146/16	GOVT	ONTRACT	NUMBER:	
KAISER ORDER NO:		SHII	DATE:	MERC	CLAD	: TEMS	ER:	PRODUCT	DESCRIPT	ION:		
1242581-3		20-	SEP-201	707	5 BAR	RE (T65	1)	KaiserSe	lect Plat	e		
WEIGHT SHIPPED: 3766 LB	3 PC	TITY:	2069	K B/L #:	GAUG 1.75	SE: 500 IN (44,4500	- 1	48.500 IN	1DTH: 231 9 MM)	LENGTH: 144.500		(3870.3 MM)
AMS 40	45/RevL		By		tified Spe				ASTM	B 209/R	ev14	
Test Code: 15 Lot: 704550B:		t 534	D	rap 30	Test Re	sults	P	arent Lot:	245163	IB1	Melted	In USA
(ASTM E8/855	57)											
(EN 2002-1) Tensile: T	67) emper 651	,	* Tests (Min:Ma	ix)	Ultimate KS 80.8 : 81.6 (557 : 563)	3	71.2	KSI (MP/ : 72.3 : 499)	۷)	Eiongatio		
(EN 2002-1) Tensile: T	emper 651	,		ax)	80.8:81.6	3	71.2	: 72.3	\ }	_		
(EN 2002-1) Tensile: T	emper 651	,		MN 0.03	80.8:81.6	3	71.2	: 72.3	0.01	_		OTHER 0.03
(EN 2002-1) Tensile: T T (ASTM E1251 Chemistry:	emper 651	LT / 2	(Min:Ma	MN	80.8:81.6 (557:563) MG	CR 0.20	71.2 (491 ZN	: 72.3 : 499)	· ·	12.5 : 1: ZR	3.4	
(EN 2002-1) Tensile: T T (ASTM E1251 Chemistry:	emper 651	LT / 2	(Min:Ma	MN	80.8 : 81.6 (557 : 563) MG 2.6	CR 0.20	71.2 (491 ZN	: 72.3 : 499)	· ·	12.5 : 1: ZR	3.4	



Trentwood Works - Spokane, WA 99215 Phone: {800} 367-2586

CERTIFIED TEST REPORT

Serial Number 4478709

CERTIFICATION

CENTICATION

Karser Aluminum, Transwood Works, is ISO 9001, ASS100, and ISO 14001 candidat, and hereby cartifies that all material shipped under this order:

* had been inspected, rested, and found to bit in conformance with the requirements of the specifications find in the indicated herein.

All tost equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification finits, machanical properties are as shown herein and chemical composition measured as a strengation at tracture.

**was metical in the United States of America, and mosts the requirements of DEARS 252.872-1(a), was manufactured in the United States of America, and mosts the requirements of DEARS 252.872-1(a), was manufactured in the United States of America, and mosts the requirements of DEARS 252.872-1(a), was manufactured in the United States of America, and mosts the requirements of DEARS 252.872-1(a), was manufactured in the United States of America, and mosts the requirements of DEARS 252.872-1(a), was manufactured in the United States of America, and mosts the requirements of States of America, and mosts the requirements of DEARS 252.872-1(a), was manufactured in the United States of America, and mosts the requirements of a State State States of America, and mosts the requirements of a State States States States of America, and mosts the requirements of a State States S

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2





CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

A M CASTLE & CO. Н 14001 ORANGE AVE. PARAMOUNT CA 90723 US P T 0

S 0 D 0

A M CASTLE 1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US

Pg 1of2

A M CAS	TLE	1105514	63 4075		INCL	USION	Serial	20170707-0110551463
CUSTOR 424642	MER PURC	CHASE ORI	DER NO. & ITE	VI	Const. 207814	ellium ORDER		CERTIFIC Constellium Rolled Produc metal shipped under t
ALLOY 7075	CLAD	TEMPER T651	GAUGE 4.00000 in 101.60 mm	WIDT 48.50 1,232	000 in	LENGTH 144.50000 ir 3,670 mm	'	inspected and found in crequirements of the appli- indicated herein. Any war shown on Constellium Ro.
SPEC PI MILL FIN	ATE, SAV	VED						General Terms and Concreports are on file, subj Constellium Rolled Produ 859 Centu
CUSTON AMS 404		IFICATION						P.O. BO: RAVENSWOOD, W
PART NI 752190	UMBER		B/L NUM 83547	BER		E SHIPPED 0/2017		Stel

CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been inspected and found in conformance with the requirements of the applicable specifications as indicated herein. Any warranty is limited to that shown on Constellium Rolled Products' standard General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road P.O. BOX 68

RAVENSWOOD, WV 26164 USA

Steve Good - Laboratory Manager

ALL LOTS ON THIS CERTIFICATION ALSO CONFORM TO THE FOLLOWING REQUIREMENTS:

GOVT, CONTRACT NO.

ASTM B594 REV 13 2013 100% SONIC W/ 0.125"DEADZONE Class A AMS QQ-A-250/12A

NO. OF PIECES

000003

AMS-STD-2154A 2012 TYPE1 CLASS A 100% SONIC MINUS DEADZONE

WT. SHIPPED

8655,000 LB

ASTM B209-14
BSS-7055B 2013 CLASS A 100% SONIC TESTED MINUS DEADZONE
CSTI006 REV E 2011 CLASS A 100% SONIC MINUS DEADZONE
DPS 4.713 REV AK 2012 CLASS A 100% SONIC MINUS DEADZONE
GAMPS 9101 REV B 2006 CLASS A 100% SONIC MINUS DEADZONE
PS 21211P 2010 CLASS A 100% SONIC MINUS DEADZONE

Load Details

Package	Net Lbs	Kg	Lot	Piece	Serial	Parent Lot
1001559281	2,885.000	1,308.613	9600886	01		
1001559284	2,885.000	1,308.613	9600886	02		
1001559285	2,885.000	1,308.613	9600886	03		

Lot: 9600886

Tensile - Room Temperature (US)

		Ultimate	(KSI)	Yield (K	SI)	Elongation	(%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	70.6	70.7	56.2	56.4	12.0	12.0	

Tensile - Room Temperature (SI)

		Ultimate	(N/MM2)	Yield (N	I/MM2)	Elongation	on (%)	Report
Direction	Tests	Min	Max	Min	Max	Min	Max	
LT	02	487	487	387	389	12.0	12.0	







CERTIFIED TEST REPORT Constellium Rolled Products Ravenswood, LLC

S H I P T O A M CAS	PARAI 90723 US	ORA MOUN	NGE	AVE	4075		INC	LUSION	1	Ser	A M CASTLE 1420 KENSINGTON ROAD, SUITE 220 OAK BROOK IL 60523 US rial:20170707-0110551463 Pg 20f2	
CUSTON 424642	MER PUR	CHASE	ORI	ER N	O. & ITE	М	Cons 2078	stellium 14	ORDE	R NO.	CERTIFICATION "Constellium Rolled Products, hereby certifies that metal shipped under this order has been	
ALLOY 7075	T651 4.00000 in 48.50000 in 144.5					NGTH 4.50000 70 mm		Inspected and found in conformance with the requirements of the applicable specifications a indicated herein. Any warranty is limited to the shown on Constellium Rolled Products' standar				
	RDERED LATE, SAV	WED				1					General Terms and Conditions of Sales. Test reports are on file, subject to examination." Constellium Rolled Products Ravenswood, LLC 859 Century Road	
CUSTON AMS 404	MER SPEC 15K	CIFICAT	TION								P.O. BOX 68 RAVENSWOOD, WV 26164 USA	
PART NO 752190	UMBER				B/L NUM 83547	BER		TE SHIE 10/2017			Steve Soul	
WT. SHII 8655.000				0. OF I	PIECES	GOVT.	CONT	RACT	VO.		Steve Good - Laboratory Manager	
Chemist Core		SI F	E).16	CU 1.45	MN 0.06		CR 0.20	ZN 5.69	TI 0.03	ZR 0.0	-	
OTHERS	S-EACH:	.05 MA)	K. OT	HERS	TOTAL:	.15 MAX	C. AL R	EMAIN	DER			
QUALIT	rial conta FY TEXTS -15403E F	•	this	lot wa	s cast ar	nd manuf	facture	d in the	USA			

THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE LABORATORY OR AUTHORIZED QUALITY DELEGATE. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CHEMISTRY BY OES: ARKSPARK

CHEMISTRIES REPORTED IN PERCENTAGE BY WEIGHT

WHEN FRACTURE TOUGHNESS TEST REQUIRED. TESTED PER ASTM #399

WHEN FRACTURE TOUGHNESS TEST REQUIRED, TESTED PER ASTM E399
WHEN TENSILE TEST REQUIRED, TESTED PER ASTM E3: B557
DUNS Number: 090570149; CAGE Code: 1YWL9

Mercury is not a normal contaminant in aluminum alloys and neither mercury nor any of its compounds were utilized in the manufacture of our product.

"END OF CERTIFICATION"

SHIP TO:

HADCO METAL TRADING CO. LLC SHIP TO STOCK 555 STATE ROAD BENSALEM, PA 19020

SOLD TO:

HADCO METAL TRADING CO. LLC 555 STATE ROAD BENSALEM, PA 19020



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4486074



099766-15	: WO	RK PACKAGE:	CUSTOMER PA	ART NUMBER:		04101/30	GOVT CON	YTRACT NUMBER:	
1246188-15		SHIP DATE: 15-NOV-20	7075	BARE	T651	PRODUCT D KaiserSel		Ň:	
WEIGHT SHIPPED: 7250 LB	8 PCS ES		0158	GAUGE: 1.2500 II	31.7500 MM	DIAMETER/WI 48.500 IN (12		ENGTH: 144.500 IN	(3670.3 MM)

MHU 2171871: LOT 24860784: 5 pieces; MHU 2171873: LOT 24860784: 3 pieces;

AMS 4045/RevL ASTM B 209/Rev14 BSS 7055/RevB DPS 4.713/RevAK PS 21211/RevP

Certified Specifications

AMS-QQ-A-250/ 2/RevA ASTM B 594/Rev13 CMMP 025/RevV GAMPS 9101/RevB/AmdSCN1 AMS-STD-2154/RevC BAC 5439/RevJ CSTI 006/RevE GSS16100/RevG/Amd1

Test Code: 1512 Lot: 248607B4

Cast 568

Drop 01

Test Results Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper T651

Dir / # Tests LT / 3 (Min:Max) Ultimate KSI (MPA) 80.6:81,5 (556:562)

Yield KSI (MPA) 71.0:72.1 (490:497)

Elongation % 13.2:13.9

(ASTM E1251)

Chemistry: SI FE CU MN MG CR ZN TI ZR OTHER 0.03 Actual(wt%) 0.08 0.18 1.5 2.4 0.19 5.7 0.03 0.01 0.01 TOT 0.03

ALLOY LIMITS

SI FE CU MN ZN Τī ZR OTHER MAX 7075 MIN(wt%) 0.00 0.00 1.2 0.00 2.1 0.18 5.1 0.00 0.00 0.00 EACH 0.05 MAX(wt%) 2.9 0 28 0.20 0.05 0.05 TOT 0.15 0.40 0.50 2.0 0.30 6.1 Aluminum Remainder



CERTIFIED TEST REPORT

Serial Number 4486074

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

CERTIFICATION

Keiser Atuminum, Transwood Works, is 150 9C01, AS\$100, and ISO 14001 contribed, and more repaired that all material shipped under this order.

* has been inspected, tested, and round to be in conformance with the requirements of the space centres indicated never.

* the special conformance and conformance with the requirements of the space centres indicated never.

* or shown haven and conformance are conformance with the requirements of space centres indicated never.

* or shown haven and conformance are conformance are conformance are conformance are conformance are conformance.

* or shown haven and conformance are conformance are conformance are conformance.

* or shown haven and conformance with AMS 2772, where applicable

* is listically rec. within the limits of defection of AETW E1215 (< Ispm).

* is in compliance with Surgicial Chambers and the state of the special conformance with Surgicial Chambers and the special conformance with Surgicial Chambers and the special conformance with Surgicial Chambers and the special conformance are conformance with Surgicial Chambers and the special conformance are conformance and the conformance and the conformance are conformance and the conformance are conformance and the conformance and the conformance are conformance and conform

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Page 2 of 2

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD **SUITE 220** OAK BROOK, IL 60523

CAISER ALUMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4333140

					1						
CUSTOMER PO NUMBER: WORK PACKAGE:			CAGE:	CUSTOMER PART NUMBER:				RUN/LOAD:	GOV'T C	ONTRACT NUMBE	R:
273385				750023			102	916/29			
KAISER ORDER NO:	LINE ITE	M: SHIP D	ATE:	ALLOY:	CLAD:	TEMPE	R:	PRODUCT D	ESCRIPTI	ON:	
1170646	1	9-MA	Y-2014	7075	BARE	T651)	Sawed Pla	ate		
WEIGHT SHIPPED:	QUANTI	TY:	TRUCK	B/L #:	GAUGE: 0.2500 II			DIAMETER/WILL 48,500 IN	TH:	LENGTH: 144.500 IN	
2670 LB	15 PCS EST. 2047		20477	789 (6.3500					31.9 MM)	177.000 117	(3670.3 MM)

MHU 1782826: LQT 682592A1; 15 pieces;

Certified Specifications

AMS 4045/RevK CMMP 025/RevU AMS-QQ-A-250/12/RevA

ASTM B 209/Rev10

Test Code: 1512

Lot: 682592A1 Cast 619 **Test Results**

Ingot 4

Melted in USA

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper T651

Dir / # Tests

LT / 2 (Min:Max)

Ultimate KSI (MPA) 87.7:87.7

Yield KSI (MPA) 77.9:78.4

Elongation %

(605:605)

(537:541)

11.5:11.7

(ASTM E1251)

Chemistry: Actual(wt%)

SI 0.08

FE 0.16

CU 1.4

0.02

Drop 19

MN

MG 2.6 0.20

CR

ZN TI 5.8 0.02 0.01

ZR 0.02

OTHER 0.05 TOT



CERTIFIED TEST REPORT

Serial Number 4333140

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

ALLOY LIMITS

7075	SI	FE	CU	MN	MG	CR	ZN	Tî	٧	ZR	OTHER	MAX
MIN(wt%) MAX(wt%)	0.00	0.00 0.50	1.2 2.0	0.00		0.18 0.28	5.1 6.1	0.00	0.00 0.05	0.00	EACH TOT	0.05 0.15
				Alu	minum B	emainder						

ORDER COMMENTS

AMC CA-15409 R 3

AMS 4045,AMS QQ-A-250/12,ASTM B209,CMMP

025



CERTIFICATION

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC (Kaiser), Is ISO-9001:2008/AS9100C certified and hereby certifies that all material shipped under this order:

* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements.

* was melted in the United States of America, and meets the requirements of DFARS 252.872-1{a}, was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.

* has been thermethy processed in compilance with AMS 2772, where applicable.

* is in mercury free, within the limits of detection of ASTM E1261 (< = 1 ppm).

* is in compliance with RoHS 2, European Union Directive 2011/85/EU.

* is in compliance with RoHS 2, European Union Directive 2011/85/EU.

* is in compliance with finerals, as defined in Section 15.2 of the Dadd-Frank Act.

* Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports as a felony under federal law.

**The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402 PARAMOUNT, CA 90723

SOLD TO:

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523



Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4478423

CUSTOMER PO NUMBE 432058-1	R: W	ORK PACKAC		STOMER I	PAR	T NUMBER:			RUN/LOAD: GOV 044/21	T CONTRACT NUMB	ER:
1241264-1		SHIP DATE		ALLOY: 7075)	BARE	T651	R:	Sawed Plate	PTION:	
WEIGHT SHIPPED: 3292 LB	6 PCS E		RUCK B/1 2069054	•		GAUGE: 0.7500 IN (1)	9.0500 N		DIAMETER/WIDTH: 48.500 IN (1231.9 M	LENGTH: 144.500 IN	(3670.3 MM

MHU 2151088: LOT 234628B6: 6 pieces;

Certified Specifications

AMS 4045/RevL ASTM B 209/Rev14 BSS 7055/RevB DPS 4.713/RevAK PS 21211/RevP AMS-QQ-A-250/12/RevA ASTM B 594/Rev13 CMMP 025/RevV GAMPS 9101/RevB/AmdSCN1 AMS-STD-2154/RevC BAC 5439/RevJ CSTI 006/RevE GSS16100/RevG/Amd1

Test Code: 1512 Lot: 234628Bb

Cast 512

Drop 05

Test Results ingot 4

Melted in USA

(ASTM E8/8557)

(EN 2002-1) Tensile:

Temper T651 Dir / # Tests LT / 2 (Min:Max) Ultimate KSI (MPA) 81.8:81.8 (564:564) Yield KSI (MPA) 72.2:72.3 (498:499) Elongation % 12.9:13.1

(ASTM E1251)

Chemistry: Actual(wt%) SI FE 0.08 0.18 CU 1.5

CU

MN

0.04

MN

MG 2.5

MG

CR 0.20

CR

ZN

5.5

ZN

TI 0.03

V 0.01

ZR 0.01 OTHER

0.15

ALLOY LIMITS

SI FE 7075 MIN(wt%) 0.00 0.00 MAX(wt%) 0.40 0.50

1.2 0.00 2.0 0.30

0 2.1 0.18 0 2.9 0.28 Aluminum Remainder 5.1 0.00 0.00 6.1 0.20 0.05

TI

V ZR OTHER
0.00 0.00 EACH

0.05

OTHER MAX EACH 0.05

ORDER_COMMENTS

AMC CA-15403 R 8



TOT



CERTIFIED TEST REPORT

Serial Number 4478423

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

TEST NOTES

Metal represented by this test report was 100% Type I (immersion) ultrasonically tested from one side with 3mm dead zones top and bottom and meets the Class A and Class B requirements of all specifications referenced on this test report. No surface marking of sonic indications is performed.

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meats specification requirements are shown herein and chemical composition meats specification requirements are selected in the United States of America, and meets the requirements of OFARS 262.226 for decreased contents.

domestic content.

domestic content.

has been thermally processed in compliance with AMS 2772, where applicable.

is mercury free, within the limits of detection of ASTM E1215 (< 1 ppm).

is in compliance with RoHS 2, European Union Directive 2011/65/EU.

is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2008, and Kalser regularly monitors these regulations for updates.

is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

is free of weld repair.

" is tree of well repair."

"meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of laise, ficilitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

mennous

Page 2 of 2

SHIP TO:

A M CASTLE & CO 14001 ORANGE AVE P.O. BOX 1402

PARAMOUNT, CA 90723

AM CASTLE & CO- SOLD TO 1420 KENSINGTON RD SUITE 220 OAK BROOK, IL 60523

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4481839

CUSTOMER PO NUMBER 438454-1	R: WO	RK PACKAG	7500		NUMBER:			RUN/LOAD: 070/8	GOV'T C	ONTRACT NUMBER	le a
KAISER ORDER NO: 1244225-1		SHIP DATE	-2017 70	11	CLAD: BARE (T651	Ri	PRODUCT D		ON:	
WEIGHT SHIPPED: 3198 LB	QUANTITY: 12 PCS E		RUCK B/L #? 2069553		GAUGE: 0.3750 l	N 9.5250 N		148,500 IN 48,500 (12	DTH: 31.9 MM)	LENGTH: 144.500 IN	(3670.3 MM)

MHU 2157346: LOT 245158B1:) 12 pieces;

Certified Specifications

AMS 4045/RevL AMS-QQ-A-250/) 2/RevA CMMP 025/RevV

ASTM B 209/Rev14

Test Code: 1542

Lot: 245158B1

Cast 534

Drop 25

Test Results

Ingot 5

Melted in USA

OTHER

0.03

TOT

(ASTM E8/B557)

(EN 2002-1)

Tensile:

Temper T651

Dir / # Tests

LT / 3 (Min:Max)

Ultimate KSI (MPA)

85.5:85.8

Yield KSI (MPA)

Elongation %

13.3:13.5

(590:592)

75.8:76.0 (523:524)

(ASTM E1251)

Chemistry: SI FE CU MN MG CR ZN TI ZR Actual(wt%) 0.10 0.17 1.5 0.04 2.5 0.19 5.8 0.03 0.01 0.02

ALLOY LIMITS

SI FΕ CU MN MG CR ZN TI V ZR OTHER MAX 7075 MIN(wt%) 0.00 0.00 1.2 0.00 2.1 0.18 5.1 0.00 0.00 0.00 **EACH** 0.05 MAX(wt%) 0.40 0.50 2.0 0.30 2.9 0.28 6.1 0.20 0.05 0.05 TOT 0.15

Aluminum Remainder

ORDER COMMENTS AMC CA-15409 R 3





Trentwood Works - Spokane, WA 99215 Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number 4481839

CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

* has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.

All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.

* was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.228 for domestic content.

was metion in the United States of America of a qualifying country per DEARS 225.872-1(8), was menuractured in the United States of America, and meets the domestic content.

has been thermally processed in compliance with AMS 2772, where applicable.

Is mercury free, within the limits of detection of ASTM £1215 [< 1ppm], is in compliance with RoHs 2, European Union Directive 2011/86/EU.

Is in compliance with Buropean Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kalser regularly monitors these regulations for updates. Is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.

is free of Cultime remains, as defined in Section 13.6 of the South Falls Act.

* is free of weld repair.

* is free of weld repair.

* meats the reporting requirements of EN10204, Type 3.1.

* Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kelser Aluminum laboratory. The recording of felse, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

Memennay

Page 2 of 2

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: _ DATE: _	M7075+650-375×6.	000 PO / BATCH NO.: 038631/5030140
MATERIAL CERT REC'D: _ QUANTITY RECEIVED: _	Ves 2911	THICKNESS ORDERED: 0.375 THICKNESS RECEIVED: 0.375
QUANTITY INSPECTED: _ QUANTITY REJECTED: _	24"	SHEET SIZE ORDERED:

DESCRIPTION	(Ch	CR leck (N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Am5-QQ-A-250
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Υ	(1)	
CORRECT REF # TO LINK CERT	(4)	N	Heat # 245158B1
CORRECT MATERIAL IDENTFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	No.	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	9-89 JAN 0 9, 7018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

۵ O REV. B 17.05.05 SHEET 1 OF 10,11,08 DATE CP HAWKESBURY, ONTARIO, CANADA ML LL M7075T6S SHEET WM TITLE DS-L 7075-T6 SHEET/PLATE SPEC DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. βY СР F. B OPTIONAL WIDTH DIM (CAR16-149) DESCRIPTION DATE 17.05.05 R NEW ISSUE MFG. APPR. APPROVED CHECKED DRAWN DESIGN REV ⋖ APPROVED SPECIFICATION CONTROL DRAWING GELEASED 2017 JUN 19 47 ECN 17-574 WHERE ".TIT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE) EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500 PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE △B. PURCHASE MATERIAL: 7075-16/16/2/1651 ALUMINUM SHEET OR PLATE QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209 QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 TIT BY 4FT BY 10FT FOR SHEET M7075T6S TTT X W.WWW THK WIDTH B PREFERRED SIZE: SPECIFICATION: SPECIFICATION: B PART NUMBER: OR 8 **B** 8 U Ω

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: _ DATE: _	M7075+650.750 JAN 0 9 7018	DX1.250 PO/BATCH NO.: 038631/5030139
MATERIAL CERT REC'D:	ves	THICKNESS ORDERED: 1-250
QUANTITY RECEIVED:	121	THICKNESS RECEIVED: 1.250
QUANTITY INSPECTED:	1211	SHEET SIZE ORDERED: N/A
QUANTITY REJECTED:	Ø	SHEET SIZE RECEIVED:

DESCRIPTION	(Ch	CR eck (N)	COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	Y	M	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	Ň	
CORRECT MATERIAL PER M-DRAWING	(1)	N	Am 7-00-A250
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(1)	
CORRECT REF # TO LINK CERT	8	N	Hest # 234628B6
CORRECT MATERIAL IDENTFICATION	(8)	N	
CORRECT M# ON THE MATERIAL	8	N	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Υ	1	
DOES THIS REQUIRE AN		-	
EXTRUSION REPORT	Y	N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.							
RECORD RESULTS BELOW							
	HRC	HRB	DUR A	DUR D	WEBSTER		
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READING							

testers located in the Quality Office

OC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	9-89 JAN 0 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: \ OG.A-250/2 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209

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PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE SPECIFICATION:

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

B

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(8)

PART NUMBER:

8

B PREFERRED SIZE:

.TTT BY 4FT BY 10FT FOR SHEET

M7075T6S TTT X W.WWW

WHERE ".TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M707576S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

MELEASED 2017 JUN 19 07 ECN 17-574

APPROVED DRAWN CHECKED MFG. APPR. DESIGN APPROVED REV ADD. REF TO "PLATE", "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) NEW ISSUE S 두 돌 유 꼮 M7075T6S DART AEROSPACE LTD

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10.11.08 DATE

17.05.05

17.05.05

DATE

7075-T6 SHEET/PLATE SPEC NTS

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REV. B

SHEET 1 OF SCALE

MATERIAL RECEIPT INSPECTION FORM

MATERIAL:	<u>M 2025H6S6-000X</u> 0.250 JAN (1 9 2008	PO / BATCH NO.: <u>03863/S03</u> 0/38
MATERIAL CERT REC'D:QUANTITY RECEIVED:QUANTITY INSPECTED:QUANTITY REJECTED:	Yes 12"	THICKNESS ORDERED: 0.250 THICKNESS RECEIVED: 0.250 SHEET SIZE ORDERED: V/A SHEET SIZE RECEIVED: V/A

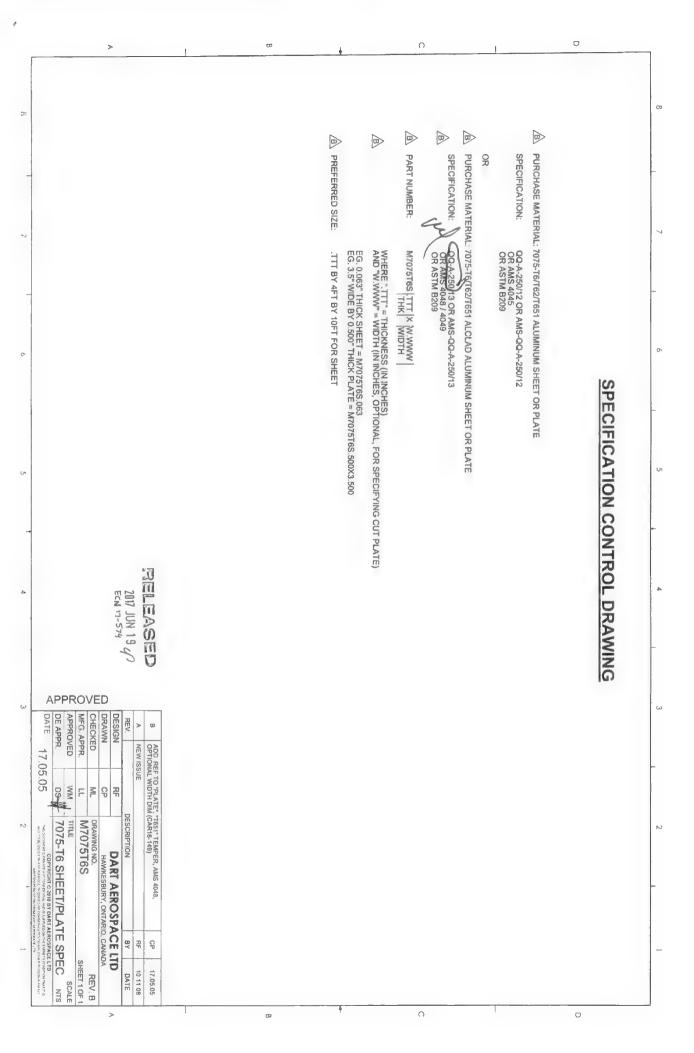
DESCRIPTION	(Ch	CR leck (N)	COMMENTS
SURFACE DAMAGE	Y	N	
CORRECT FINISH	0	N	
CORROSION	Y	M	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	Y	N	AMS-QQ-A-250
CORRECT THICKNESS	(8)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	0	N	Heat # 682592A1
CORRECT MATERIAL IDENTFICATION	(4)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	4	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW							
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER		

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	9-89 JAN 0 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



MATERIAL RECEIPT INSPECTION FORM

MATERIAL:	17075 HGS 1-250x2	PO / BATCH NO.	038631/5030137
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Yes 4801 4801	THICKNESS ORDERED. THICKNESS RECEIVED: SHEET SIZE ORDERED: SHEET SIZE RECEIVED:	1-250 N/A

DESCRIPTION	(Ch	CR neck (N)	COMMENTS
SURFACE DAMAGE	Y_	(N)	
CORRECT FINISH	(8)	N	
CORROSION	X	N	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Am5-00-A-250
CORRECT THICKNESS	M	N	
PHOTO REQUIRED	Y	N	, ,
CORRECT REF # TO LINK CERT	(Y)	N	Heat IF 248607B4
CORRECT MATERIAL IDENTFICATION	(7)	N	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(3)	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.		
TYPE OF MATERIAL SIZE OF TEST SAMPLE	HRC	HRB	DUR A	DUR D	WEBSTER	
HARDNESS / DUROMETER READING						

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS 11	SIGNED OFF BY:
DATE:	9-89 JAN 0 9 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING WHERE ", TTT" = THICKNESS (IN INCHES) AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE) EG. 0.063" THICK SHEET = M707516S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M707516S.500X3.500 PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE PURCHASE MATERIAL: 7075-16/162/1651 ALUMINUM SHEET OR PLATE QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209 QQ-A-259/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 TTT BY 4FT BY 10FT FOR SHEET M7075T6S TTT X W.WWW THK WIDTH A PREFERRED SIZE: SPECIFICATION: SPECIFICATION: B PART NUMBER: OR. 8 (1) 8

2017 JUN 19 47 ECN 17-574 MELEASED

REV. B 10.11.08 SHEET 1 OF 17.05.05 DATE RF DART AEROSPACE LTD
CP HAWKESBURY, ONTARIO, CANADA
ML M7075T6S SHEET 1C
WM TITLE
SCA
DS-M TO75-T6 SHEET/PLATE SPEC N CP RF B OPTIONAL WIDTH DIM (CAR16-149) 17.05.05 NEW ISSUE MFG. APPR. APPROVED DRAWN DE APPR. DESIGN A REV. **APPROVED**

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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: _ DATE: _	M7075+651.750	2×2250 -	PO / BATCH NO.:	038631/503014
MATERIAL CERT REC'D:	Ves	THIC	CKNESS ORDERED:	1750
QUANTITY RECEIVED:	48"	_	KNESS RECEIVED:	
QUANTITY INSPECTED:	4811	SHE	ET SIZE ORDERED:	NA
QUANTITY REJECTED:	0	SHE	ET SIZE RECEIVED:	NA
				/

DESCRIPTION		CR			
		neck (N)	COMMENTS		
SURFACE DAMAGE	Y	N			
CORRECT FINISH	M	N			
CORROSION	Y	N)			
CORRECT GRAIN DIRECTION	(Y)	N			
CORRECT MATERIAL PER M-DRAWING	M	N	Am5 BQ-A-250		
CORRECT THICKNESS	(4)	N			
PHOTO REQUIRED	X	(N)			
CORRECT REF # TO LINK CERT	(8)	Ň	Hex# 70455083		
CORRECT MATERIAL IDENTFICATION	W	N			
CORRECT M# ON THE MATERIAL	(8)	N			
DOES THIS MATERIAL REQUIRE		A			
ENGINEERING SIGN OFF	Y	(N)			
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	M			

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
R	ECORD RES	ULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING				Î	

testers located in the Quality Office

QC 18 INSPECTION	* *	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	11	SIGNED OFF BY:
DATE:	JAN 0 9 2003	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

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B PURCHASE MATERIAL: 7075-T6/162/T651 ALUMINUM SHEET OR PLATE

QQ-A-250/1 OR AMS-QQ-A-250/12 OR MMS-1645 OR ASTM B209 SPECIFICATION:

OR

PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE **B**

SPECIFICATION: 8

QQ-A-250/13 OR AMS-QQ-A-250/13 OR AMS 4048 / 4049 OR ASTM B209

M7075T6S TTT X W.WWW THK WIDTH

WHERE ".TTT" = THICKNESS (IN INCHES)
AND "W.WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063 EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

TITT BY 4FT BY 10FT FOR SHEET

REV. B SHEET 1 OF 1 10.11.08 17.05.05 DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. SH B ADD: REF TO "PLATE", TES1" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149) 유유 3 MFG. APPR. CHECKED REV. DESIGN DRAWN **APPROVED**

DS# 7075-T6 SHEET/PLATE SPEC

17.05.05

APPROVED

DATE A

MELEASED

2017 JUN 19 40 ECN 17-574

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B PART NUMBER:

(a)